

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

05/31/2011

Thomas Costello
Assistant District Attorney, Suffolk County

Dear ADA Costello,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan & Stacey Desjardins.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION

Master of Science—Forensic Science

University of New Haven; West Haven, Connecticut

May 2006

- Concentration: Criminalistics
- Certificate: Advanced Investigation

Bachelor of Arts—Chemistry

Monmouth College; Monmouth, Illinois

May 2004

- Graduated Cum Laude

EXPERIENCE

Chemist I

Massachusetts Department of Public Health; Jamaica Plain, Massachusetts

March 2009-present

- Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies
- Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)
- Provide expert testimony to local, state, and federal courts in Massachusetts

Teaching/Graduate Assistant

Monmouth College Chemistry Department

University of New Haven Forensic Science Department

January 2001-May 2006

- Supervised labs and answered student questions
- Performed demonstrations using forensic techniques and chemicals

Additional work experience and references available upon request

TRAINING

2010: DEA Forensic Chemist Seminar—Washington DC

2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends

2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst

2005: Internship with the New Hampshire State Crime Lab

COURSEWORK

Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry

DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

Roslindale

MA

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHT

LAB USE ONLY

ANALYSIS
NUMBER

loose crack

loose

2.15 gm

Suboxone

16

7.68 gm

Dolofine

12

4.18 gm

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED]

Date Analyzed: 09-28-10

City: Boston D.C.U. Police Dept.

Officer: P.O. Roseanne Atkins-Tyler

Def: [REDACTED]

Amount: 16.0

Subst: TAB

No. Cont: 1 Cont: pb

Date Rec'd: 06/25/2010

No. Analyzed:

Gross Wt.: 7.68[✓]

Net Weight: 6.18g

Tests: 1 SLD

Prelim:

buprenorphine
B

Findings:

2 ASD

Buprenorphine

DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY BostonANALYST SUD

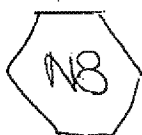
No. of samples tested: _____

Evidence Wt. ✓PHYSICAL DESCRIPTION:- signed & sealed
- 16 orange, hexagonal tabs

Gross Wt (): _____

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: 6.18g- Class BPRELIMINARY TESTSSpot TestsCobalt
Thiocyanate () _____

Marquis _____

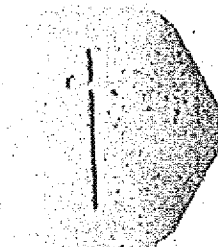
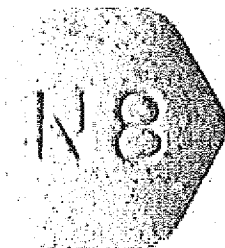
Froehde's _____

Mecke's _____

Microcrystalline TestsGold
Chloride _____

TLTA () _____

OTHER TESTSmicromedexPRELIMINARY TEST RESULTSRESULTS buprenorphineDATE 9-20-10GC/MS CONFIRMATORY TESTRESULTS buprenorphineMS
OPERATOR ASDDATE 9-28-10

POISINDEX® Product List**Suboxone****Regulatory-Status:** Schedule III**Ingredients****Active-Ingredients:** Buprenorphine - 8 MG
Naloxone - 2 MG**Availability & Manufacturing****Availability:** United States**Available-Container-Size:** Bottle of 30**Contact:** Reckitt Benckiser**Product ID:** 6370996**AAPCC Code:** 200625 - Buprenorphine**Registry Number:** NDC 12496-1306-02**Physical Description****Imprint:** N8; Sword Logo**Form:** Tablet**Color:** orange**Shape:** Six-sided**Images for NDC 12496-1306-02****Images for NDC 12496-1306-02**



N8



1.

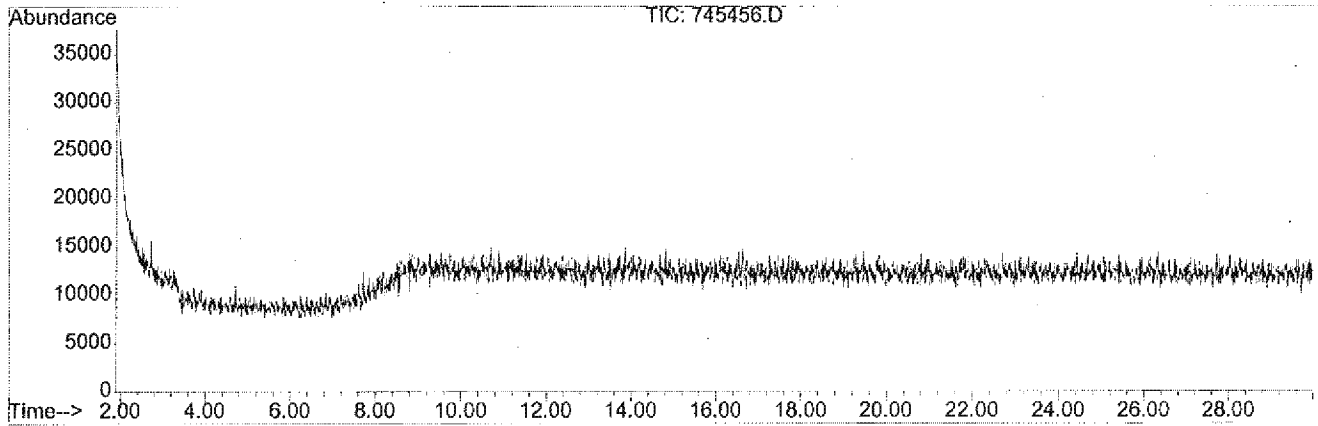
© 1974- 2010 Thomson Reuters. All rights reserved.

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745456.D
Operator : ASD
Date Acquired : 28 Sep 2010 00:38
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: WSCREEN
Integrator : RTE

✓ ASD
9-28-10 ASD
05-31-11



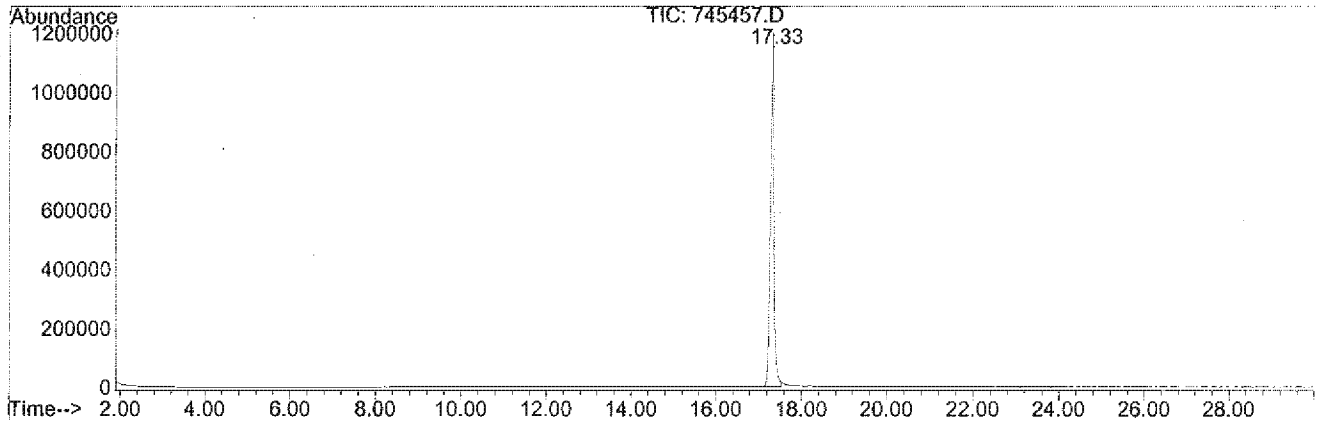
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745457.D
Operator : ASD
Date Acquired : 28 Sep 2010 1:12
Sample Name : BUPRENORPHINE STD
Submitted by : SLD
Vial Number : 57
AcquisitionMeth: WSCREEN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
17.329	6579205	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

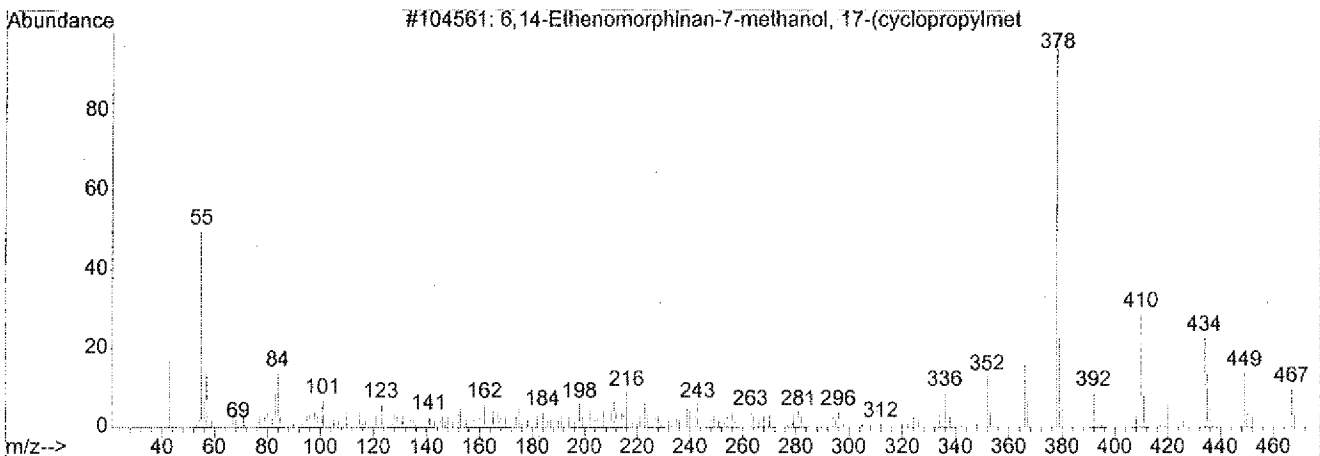
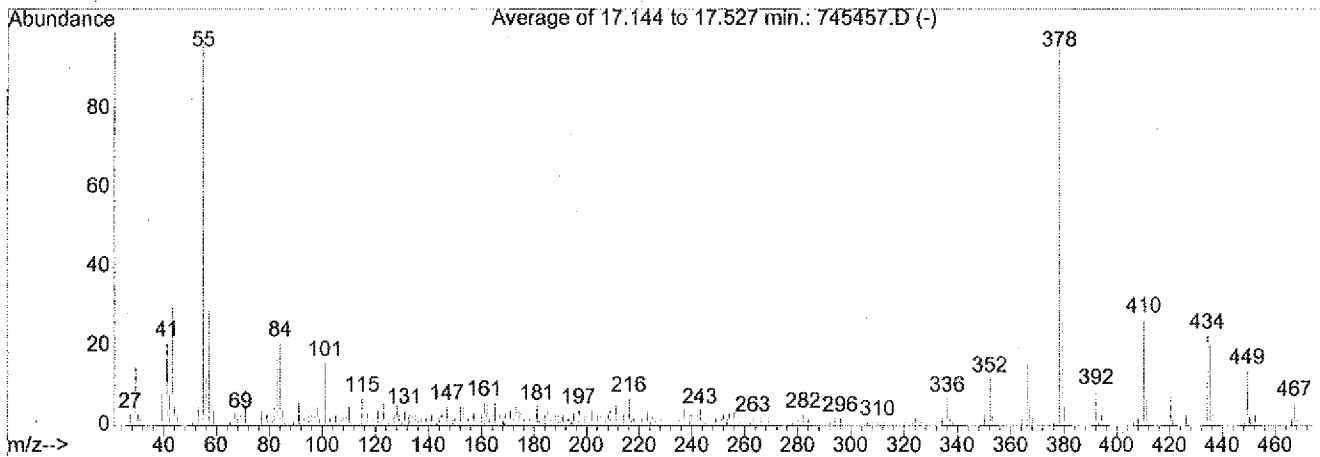
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File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745457.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   1:12
Sample Name     : BUPRENORPHINE STD
Submitted by    : SLD
Vial Number     : 57
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

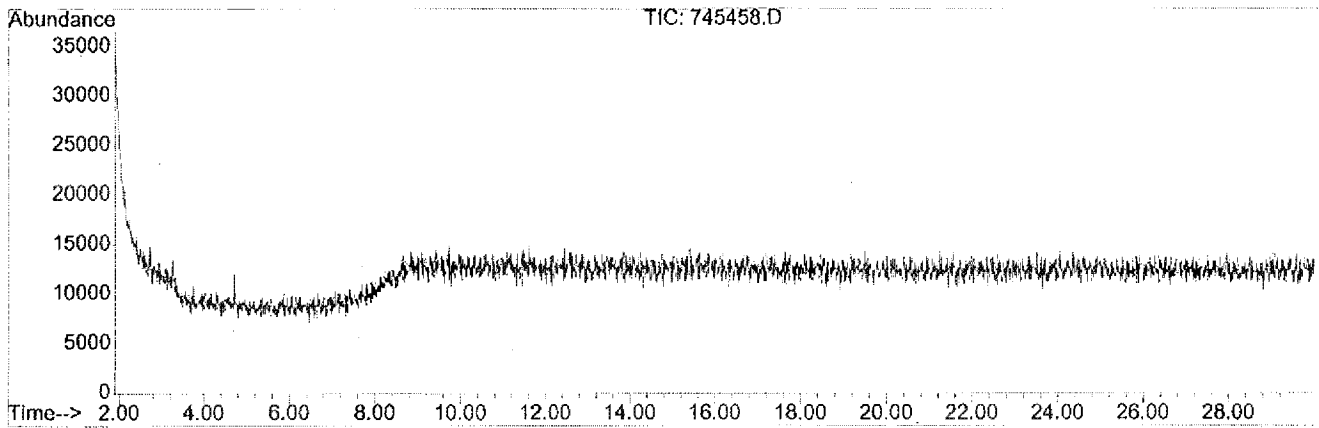
PK#	RT	Library/ID	CAS#	Qual
1	17.33	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	96
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	91
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	45



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745458.D
Operator : ASD
Date Acquired : 28 Sep 2010 1:46
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: WSCREEN
Integrator : RTE



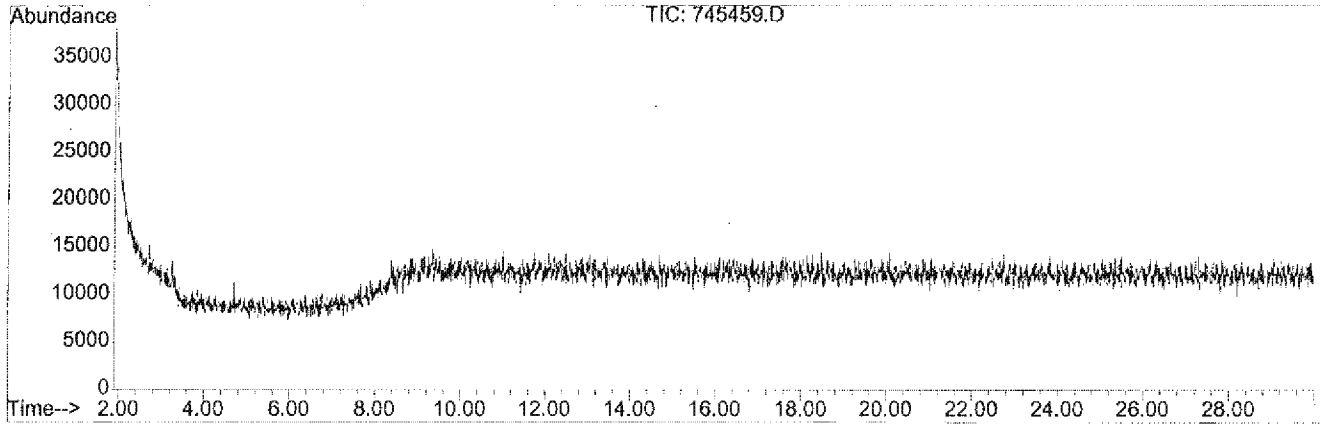
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745459.D
Operator : ASD
Date Acquired : 28 Sep 2010 2:20
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: WSCREEN
Integrator : RTE



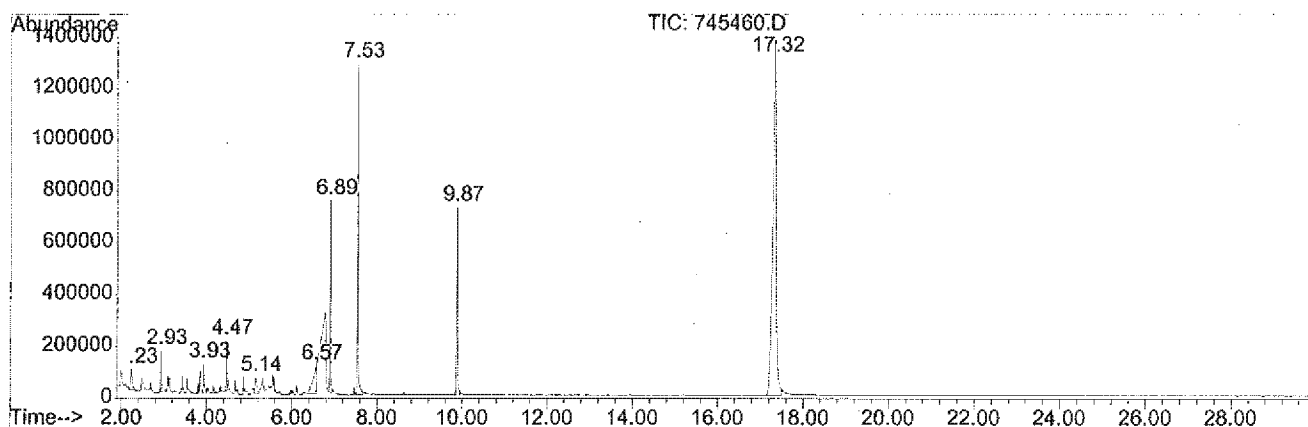
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
 Operator : ASD
 Date Acquired : 28 Sep 2010 2:54
 Sample Name : XXXXXXXXXX
 Submitted by : SLD
 Vial Number : 60
 AcquisitionMeth: WSCREEN
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.235	214681	1.71	2.78
2.929	193306	1.54	2.51
3.934	191580	1.53	2.48
4.466	179975	1.44	2.33
5.142	179015	1.43	2.32
6.566	582782	4.65	7.56
6.889	688047	5.49	8.92
7.529	1388078	11.09	18.00
9.868	1191689	9.52	15.45
17.316	7712405	61.59	100.00

Area Percent / Library Search Report

Information from Data File:

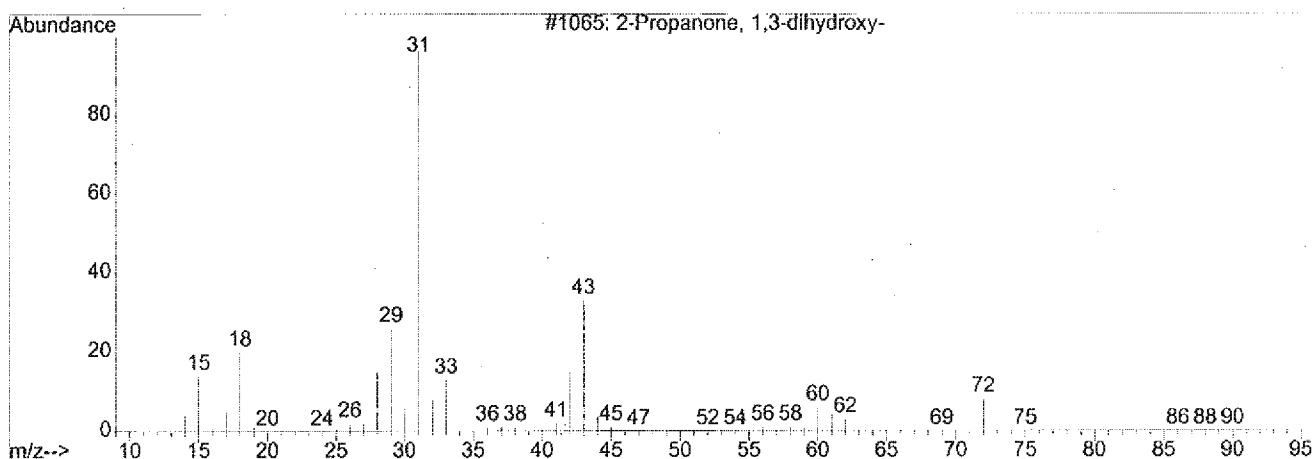
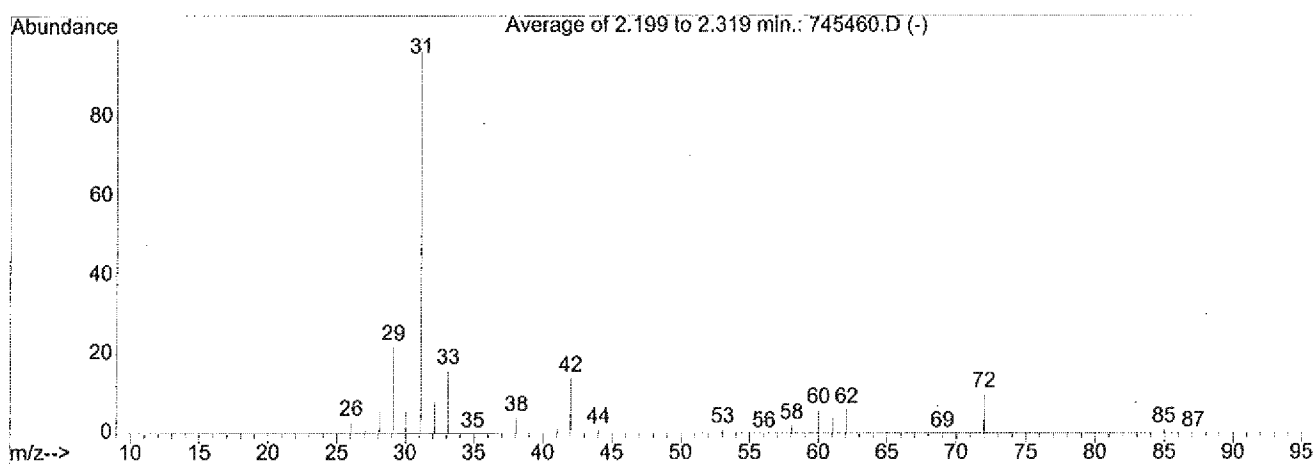
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File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.23	C:\DATABASE\NIST98.L		
		2-Propanone, 1,3-dihydroxy-	000096-26-4	83
		1,5-Pentanediol	000111-29-5	36
		1-Propanol	000071-23-8	9



Area Percent / Library Search Report

Information from Data File:

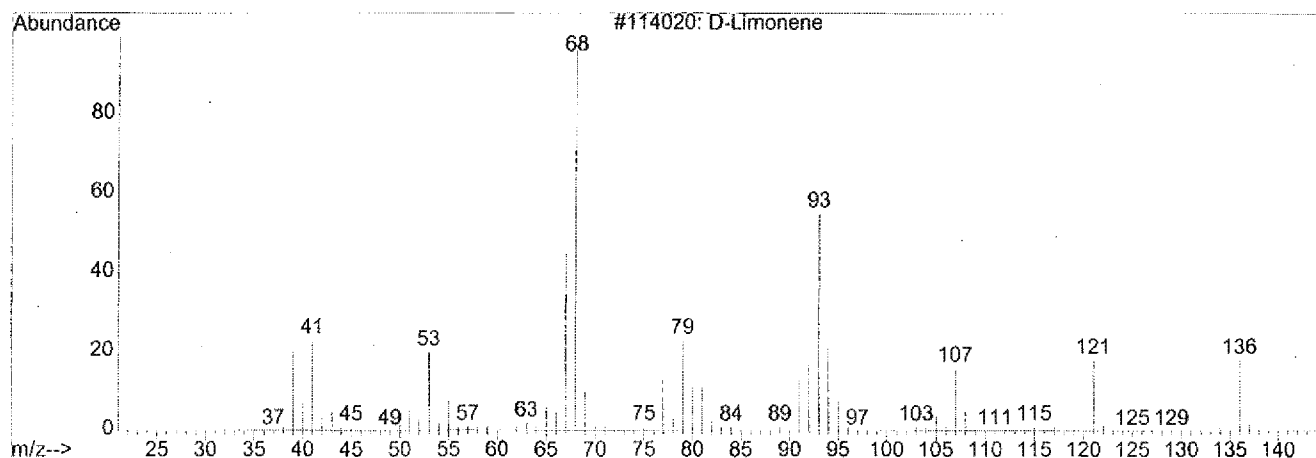
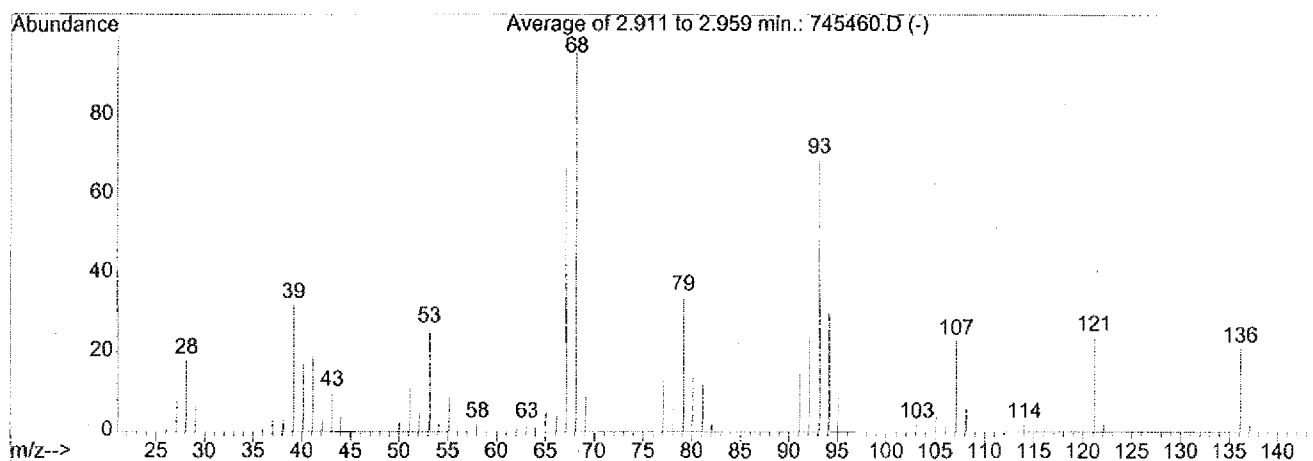
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Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	2.93	C:\DATABASE\NIST98.L		
		D-Limonene	005989-27-5	98
		D-Limonene	005989-27-5	96
		D-Limonene	005989-27-5	96



Area Percent / Library Search Report

Information from Data File:

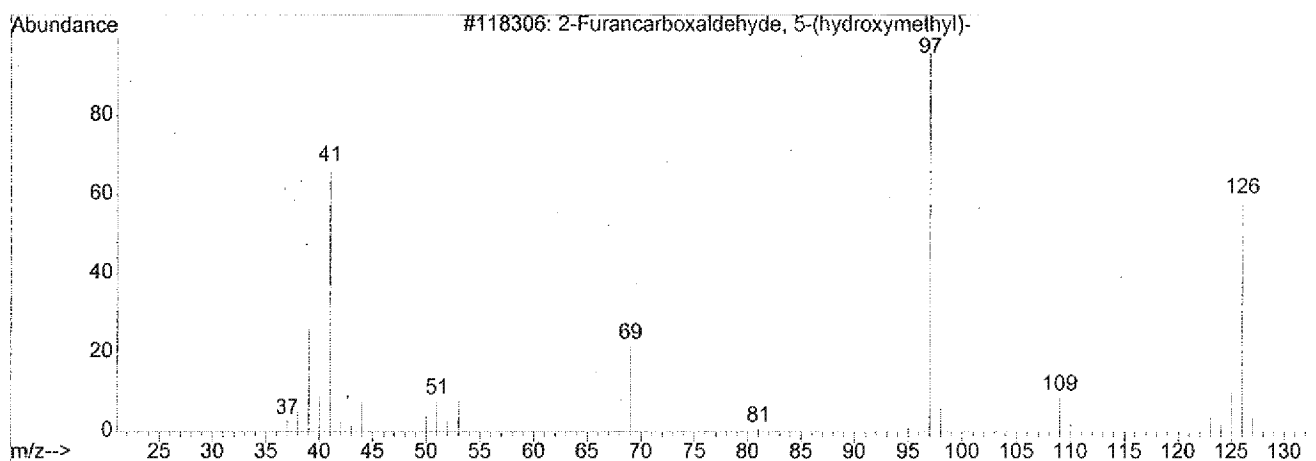
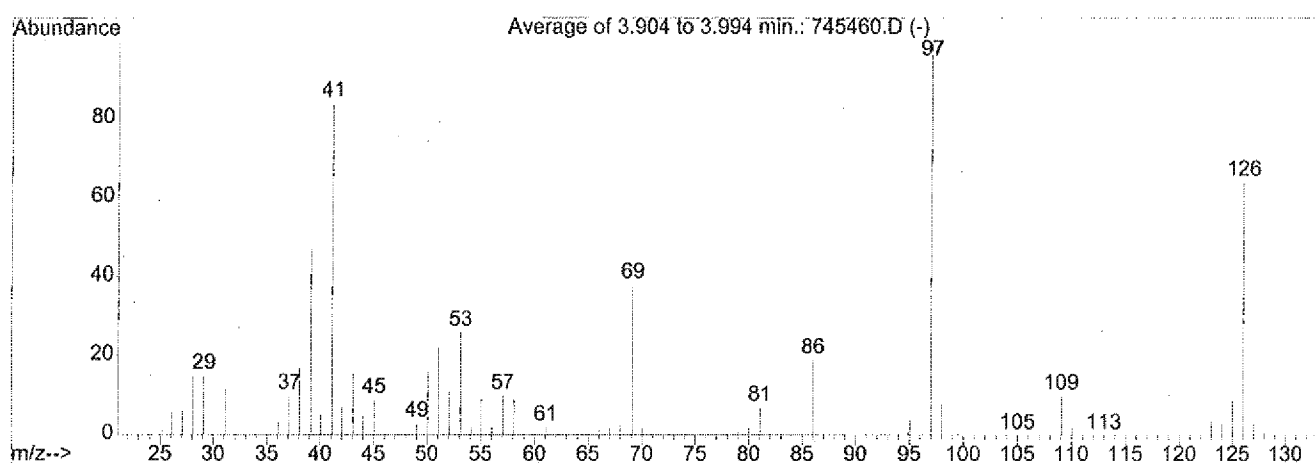
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Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	3.93	C:\DATABASE\NIST98.L		
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	64
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	62
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	46



Area Percent / Library Search Report

Information from Data File:

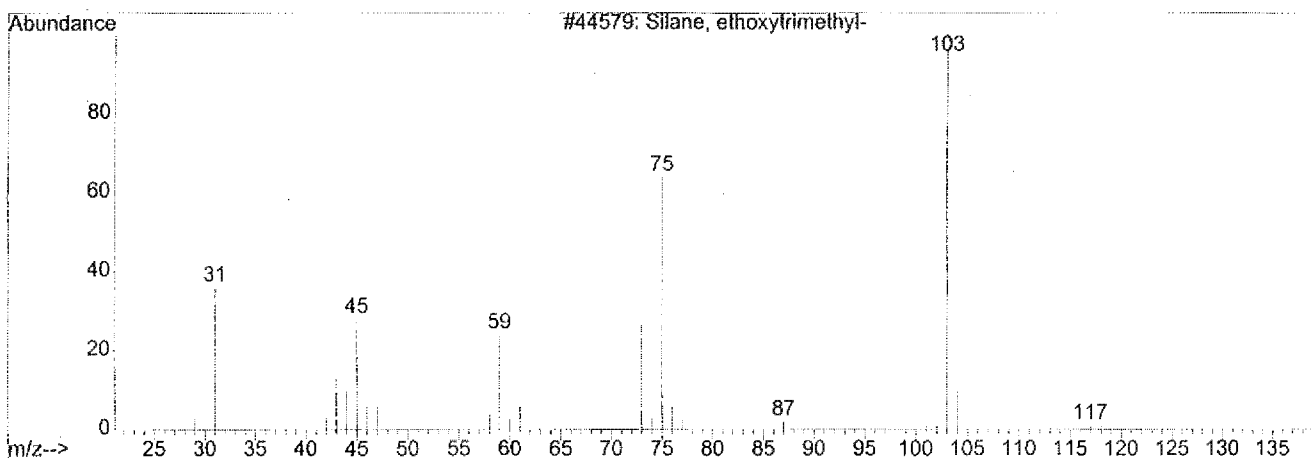
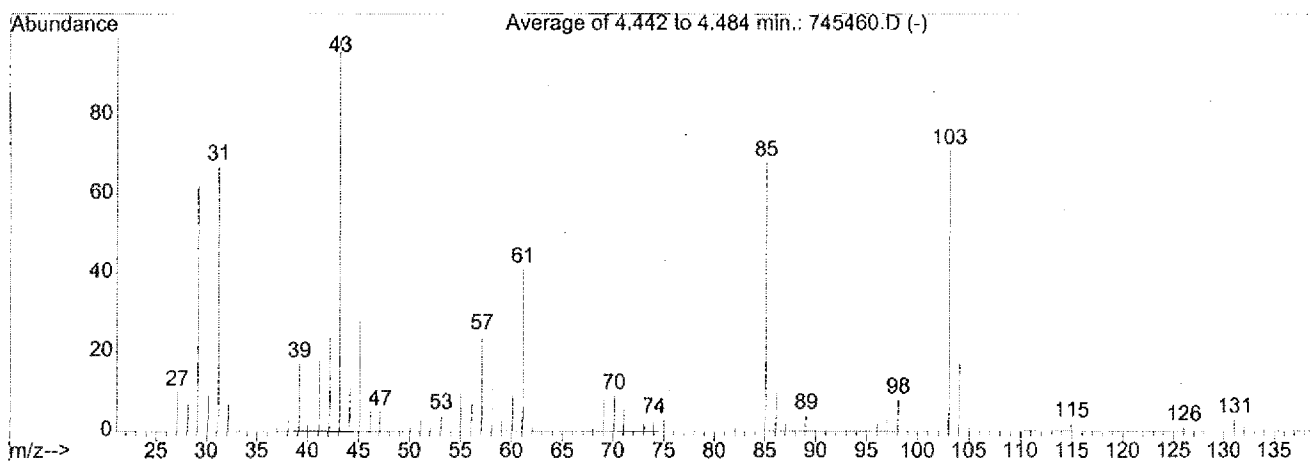
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Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	4.47	C:\DATABASE\NIST98.L		
		Silane, ethoxytrimethyl-	001825-62-3	38
		Hexyl isovalerate	010632-13-0	28
		Disulfide, propyl 1-(propylthio)eth	069078-86-0	25



Area Percent / Library Search Report

Information from Data File:

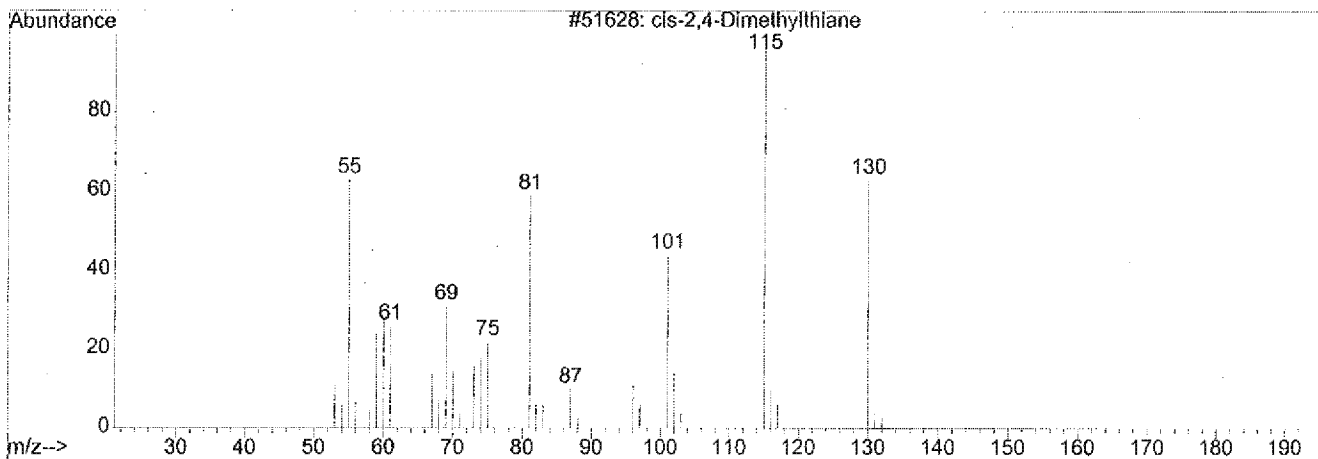
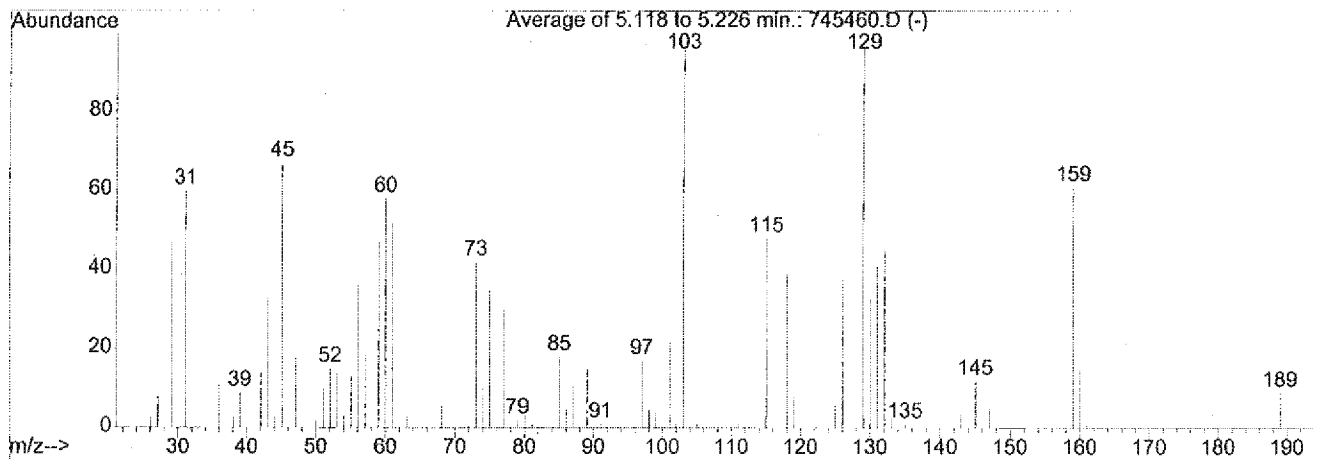
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File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
5	5.14	C:\DATABASE\NIST98.L		
		cis-2,4-Dimethylthiane	061568-43-2	15
		Sulfide, sec-butyl isopropyl	022438-36-4	10
		Azete, 2,3-dihydro-4-phenyl-	033720-74-0	10



Area Percent / Library Search Report

Information from Data File:

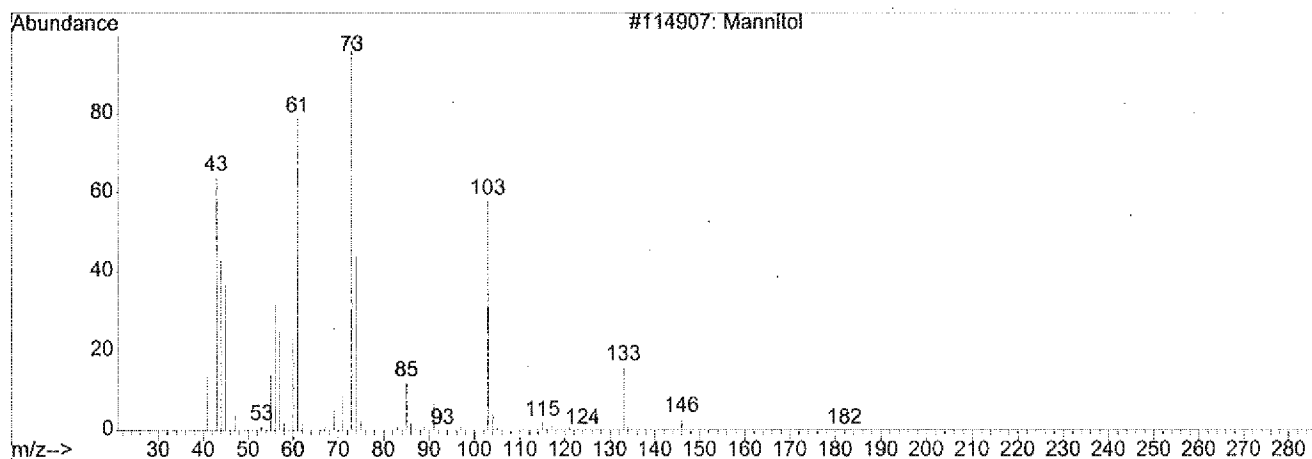
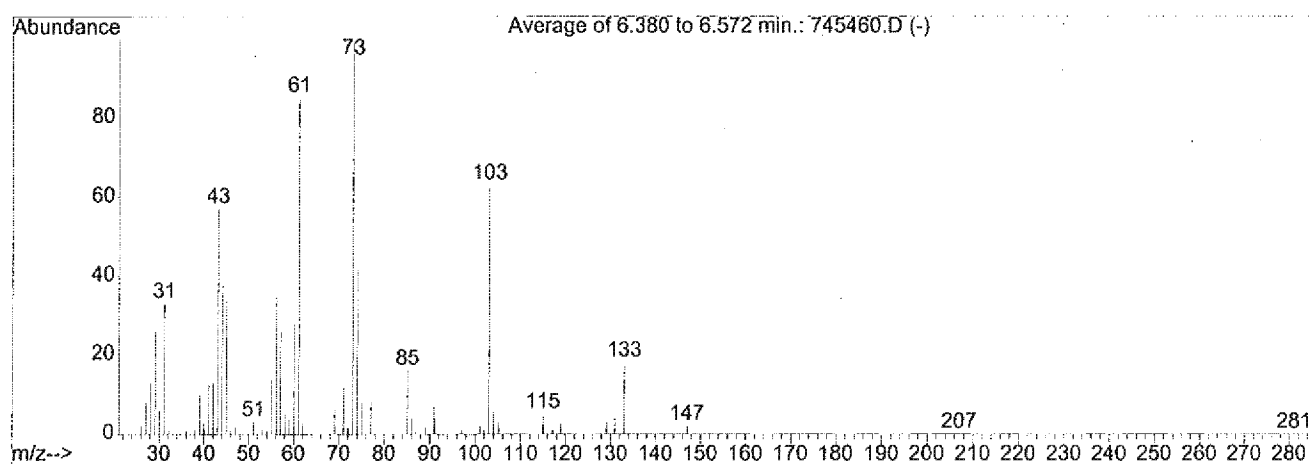
```

File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
6	6.57	C:\DATABASE\NIST98.L		
		Mannitol	000069-65-8	90
		Sorbitol	000050-70-4	86
		Glucitol	026566-34-7	83



Area Percent / Library Search Report

Information from Data File:

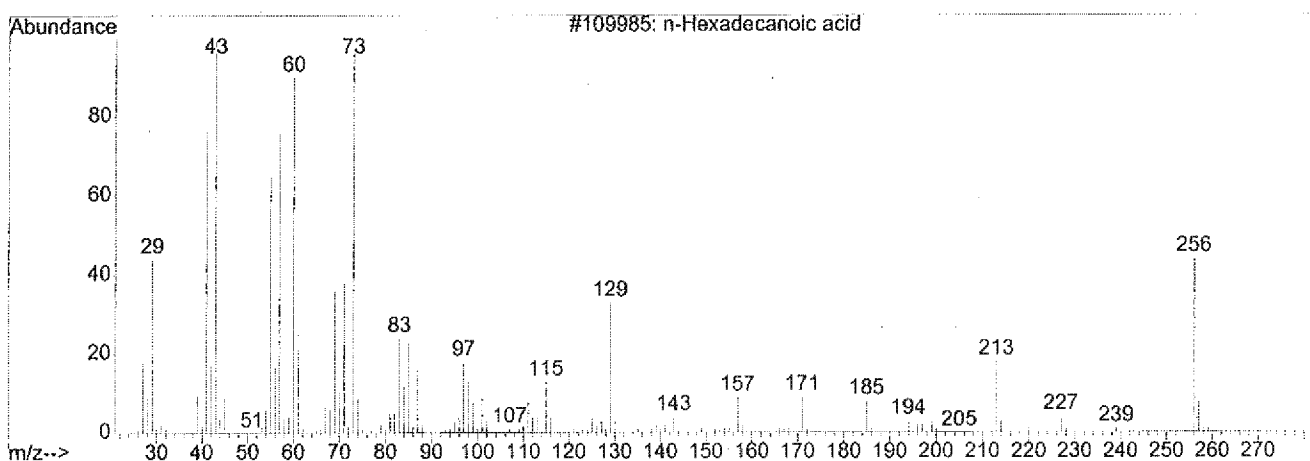
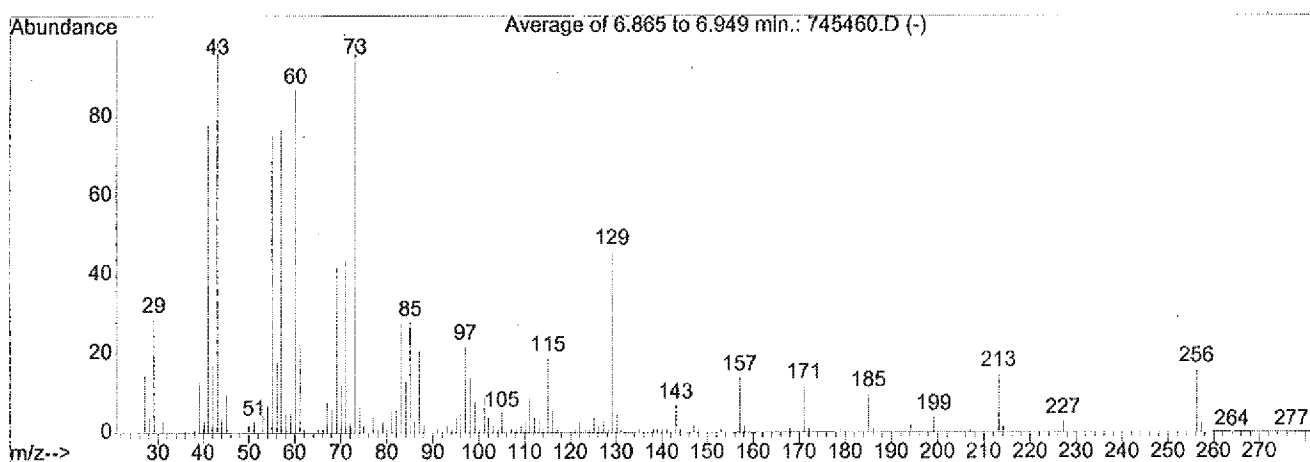
```

File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
7	6.89	C:\DATABASE\NIST98.L		
		n-Hexadecanoic acid	000057-10-3	99
		n-Hexadecanoic acid	000057-10-3	99
		n-Hexadecanoic acid	000057-10-3	93



Area Percent / Library Search Report

Information from Data File:

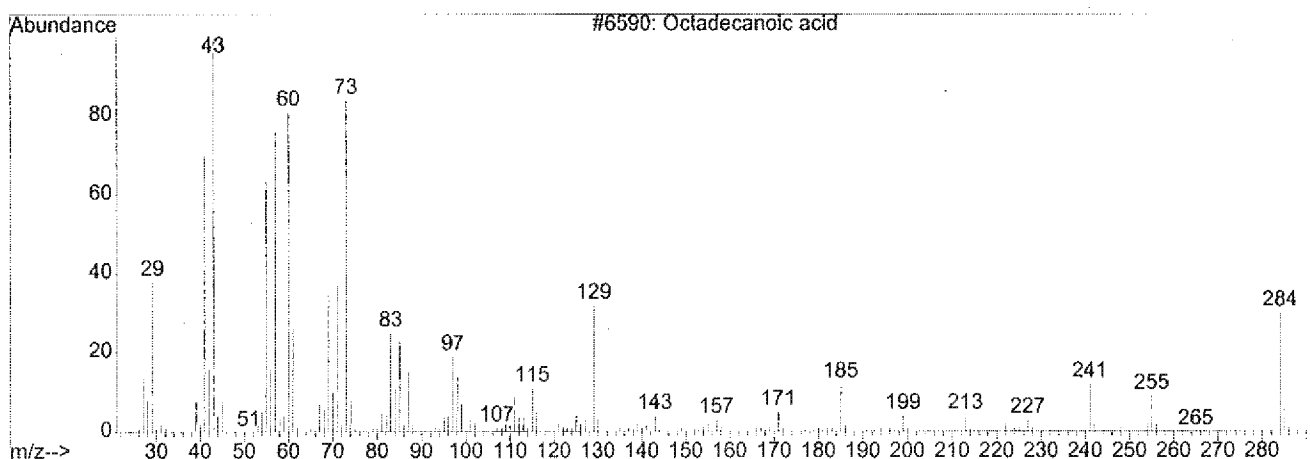
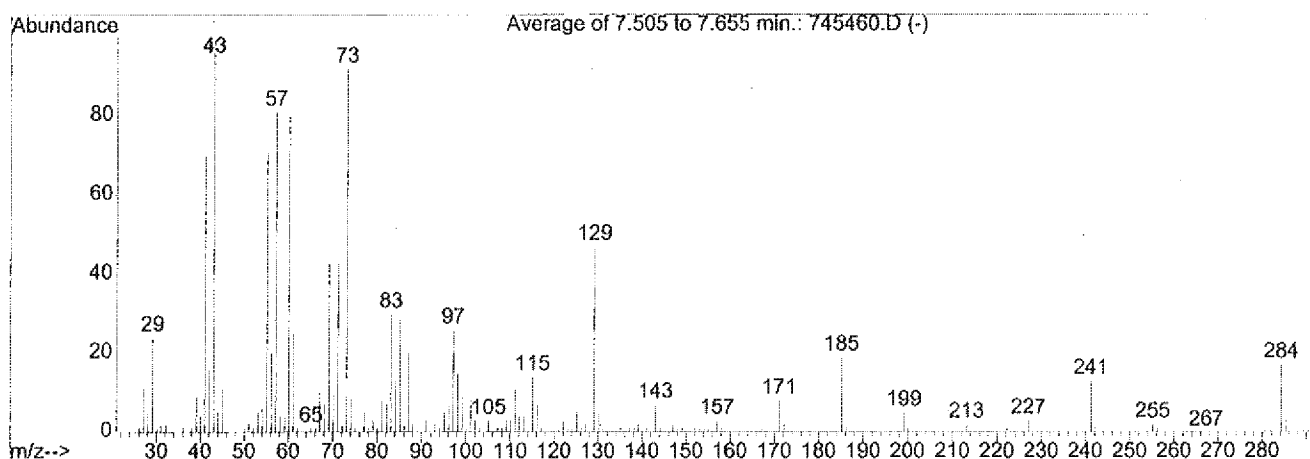
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File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
8	7.53	C:\DATABASE\NIST98.L		
		Octadecanoic acid	000057-11-4	96
		Octadecanoic acid	000057-11-4	96
		Octadecanoic acid	000057-11-4	95



Area Percent / Library Search Report

Information from Data File:

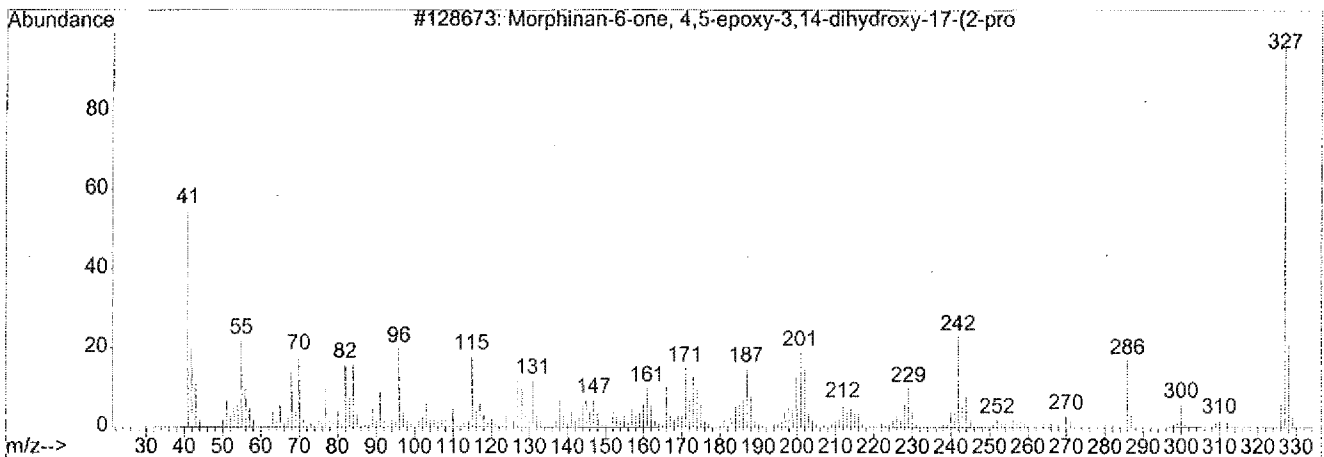
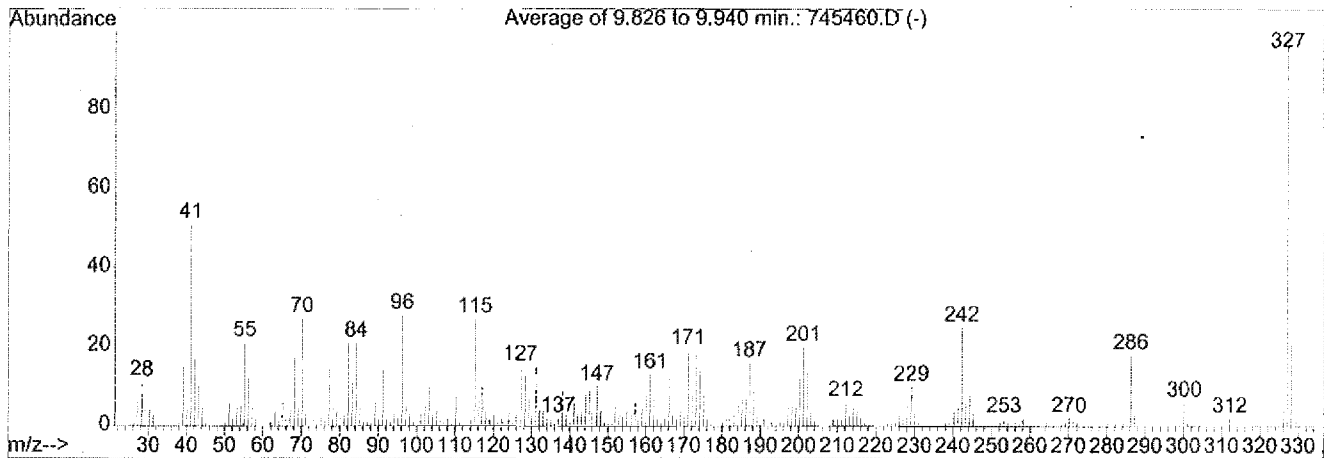
```

File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : 
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
9	9.87	C:\DATABASE\NIST98.L		
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	78
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	70



Area Percent / Library Search Report

Information from Data File:

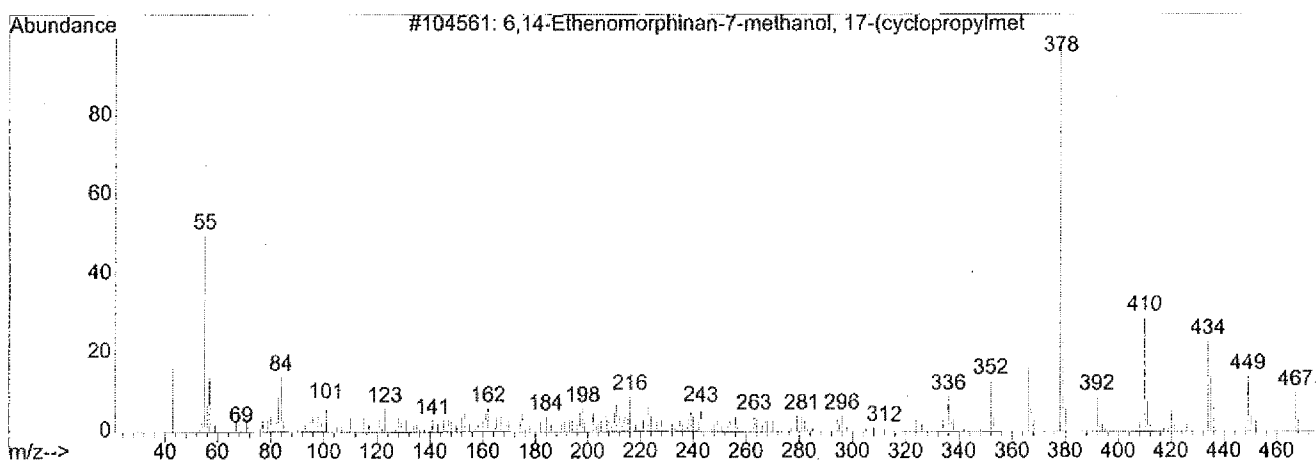
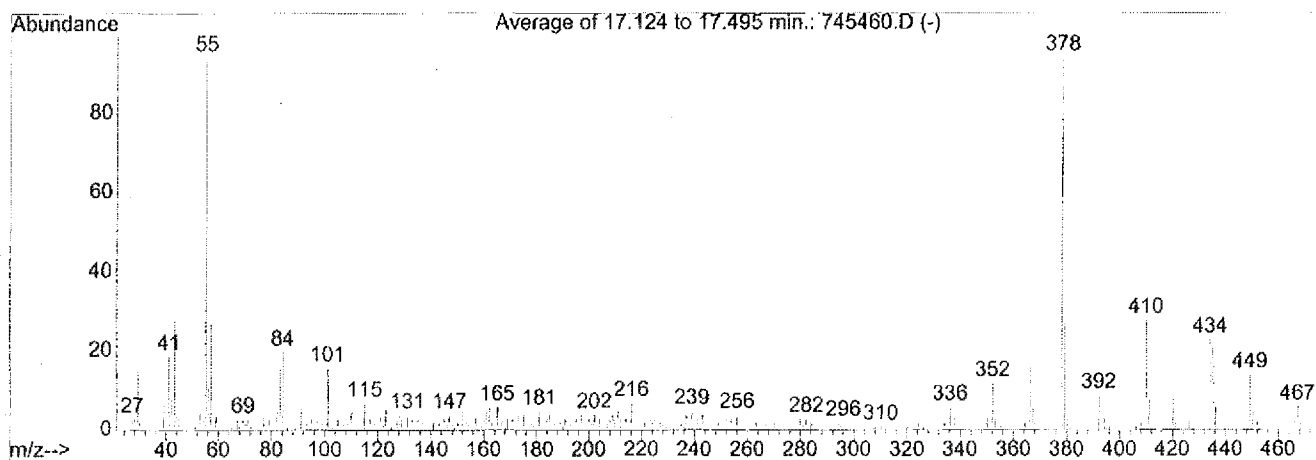
```

File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745460.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   2:54
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 60
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

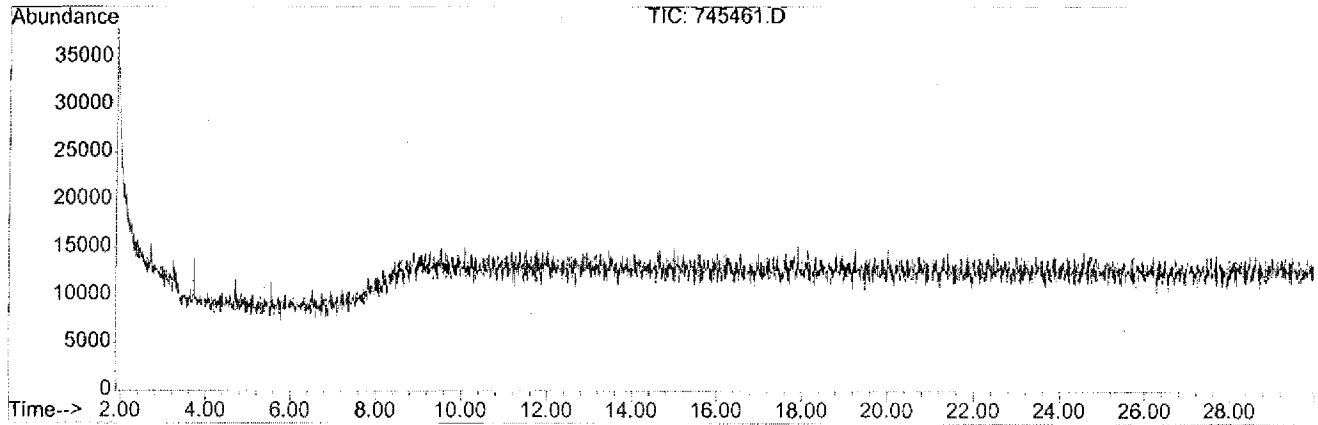
PK#	RT	Library/ID	CAS#	Qual
10	17.32	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	96
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	50
		1,2,8,9-Dibenzpentacene	000227-09-8	38



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745461.D
Operator : ASD
Date Acquired : 28 Sep 2010 3:29
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: WSCREEN
Integrator : RTE



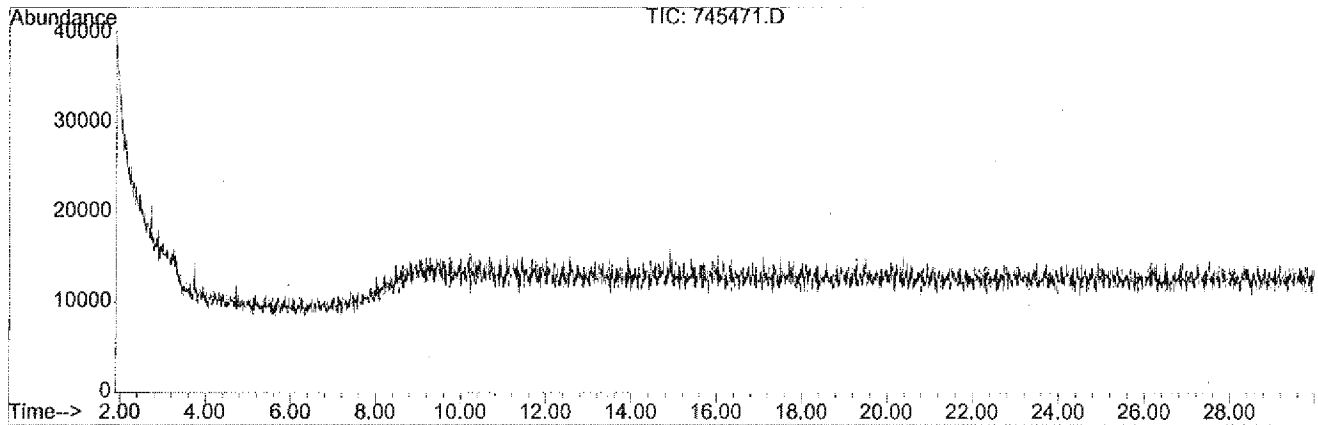
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745471.D
Operator : ASD
Date Acquired : 28 Sep 2010 9:10
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: WSCREEN
Integrator : RTE



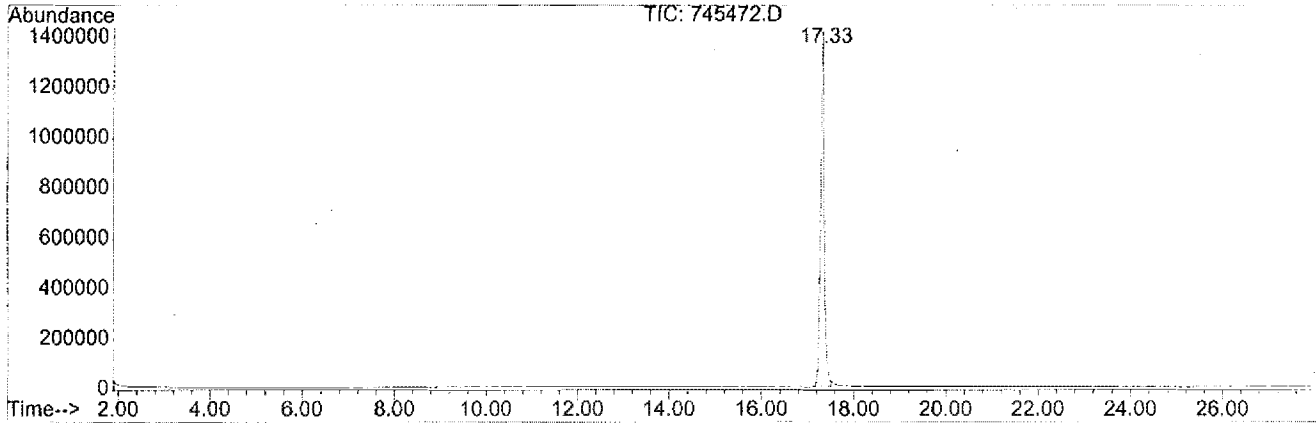
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_27_10\745472.D
 Operator : ASD
 Date Acquired : 28 Sep 2010 9:44
 Sample Name : BUPRENORPHINE STD
 Submitted by : SLD
 Vial Number : 57
 AcquisitionMeth: WSCREEN
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
17.330	7955465	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

```

File Name       : F:\Q3-2010\SYSTEM4\09_27_10\745472.D
Operator        : ASD
Date Acquired   : 28 Sep 2010   9:44
Sample Name     : BUPRENORPHINE STD
Submitted by    : SLD
Vial Number     : 57
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	17.33	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	96
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	95
		10-Methoxycamptothecin	019685-10-0	50

